

Amendments to the Specification

Please amend the specification as follows:

On page 4, after the title "Brief Description of the Drawings" on line 14, insert the following paragraph:

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The patent or application file contains at least one drawing executed in color.

A1 Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.

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On page 8, replace the paragraph beginning on line 14 with the following:

A2 In order to generate an optimal color correction matrix 206, the calibration chart 200 is imaged under illumination conditions similar to those that will be used during normal operation of the imager. Once the image of the chart is obtained, the detected signal values of each color channel Xi of the imager are recorded for all color elements of the calibration chart.

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On page 12, replace the paragraph beginning on line 4 with the following:

A3 A preferred mode uses a 3-color RGB ~~Byer~~ Bayer pattern color filter assembly. The system uses 24-color GretagMacbeth ColorChecker chart marketed by GretagMacbeth, New Windsor, NY as the color calibration chart. GretagMacbeth describes their chart as "Checkerboard array of 24 scientifically prepared color squares in a wide range of colors. Many of these squares represent natural objects of special interest, such as human skin, foliage and blue sky. These squares are not only the same color as their counterparts, but also reflect light the same way in all parts of the visible spectrum. Because of this unique feature, the squares will match the colors of natural objects under any illumination and with any color reproduction process.

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